

HW answers **p. 261 #1, 2, 4, 6** **&** **p. 266 #7, 9, 10**

- 1) (a) Experiment. There are 2 treatments
(b) Explanatory Var. = price history
Response Var. = which price they expect to pay
Subjects = students in an economics course
Treatments = the 2 different price histories

- 2) (a) Observational study- no treatment, just observing
(b) Explanatory Var. = housing status (whether they live in
public housing or not)
Response Var. = family stability
(c) Yes. Family income, other lurking variables

4) There are many confounding/lurking variables in this study.
Ex: age, diet, exercise, health, job, etc.

6) 100% reacted to harmless leaf (told it was poison ivy)
 $11/13 = 84.6\%$ did **not** react to real poison ivy.

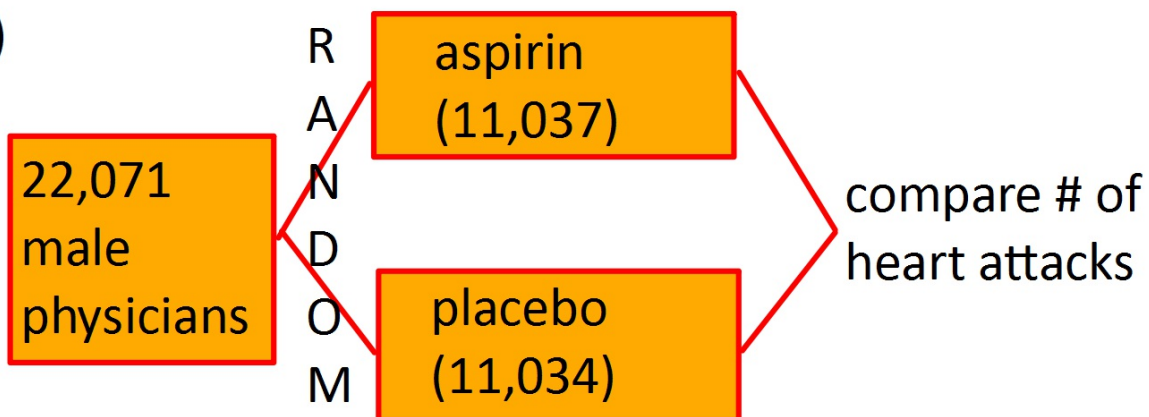
(a) the placebo was the harmless leaf

(b) the placebo effect is when subjects show a reaction to a placebo. In this case, we see a negative reaction to the placebo, and almost no reaction to the real treatment.

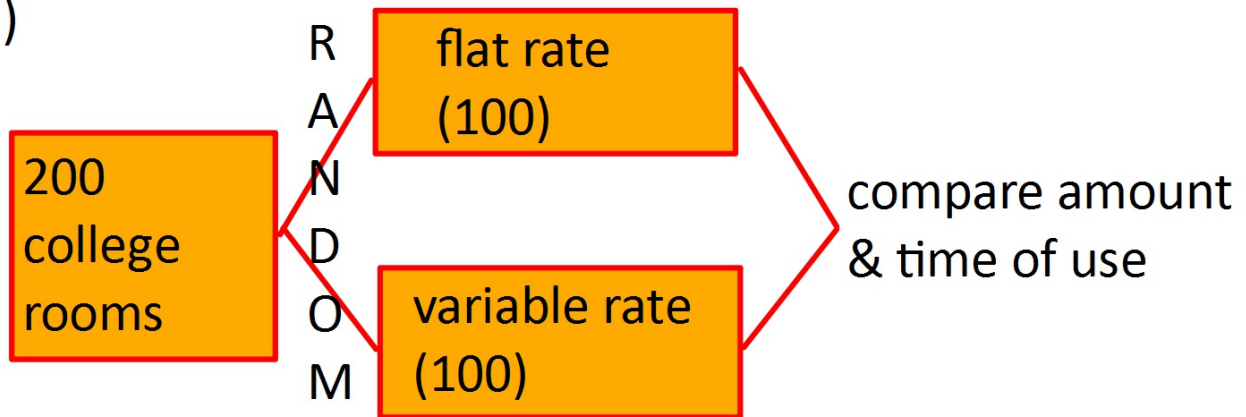
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- 7) (a) Subjects = 22,071 male physicians
Explanatory Var. = medication taken
Treatments = real aspirin & placebo
Response Variable = # of heart attacks

(b)



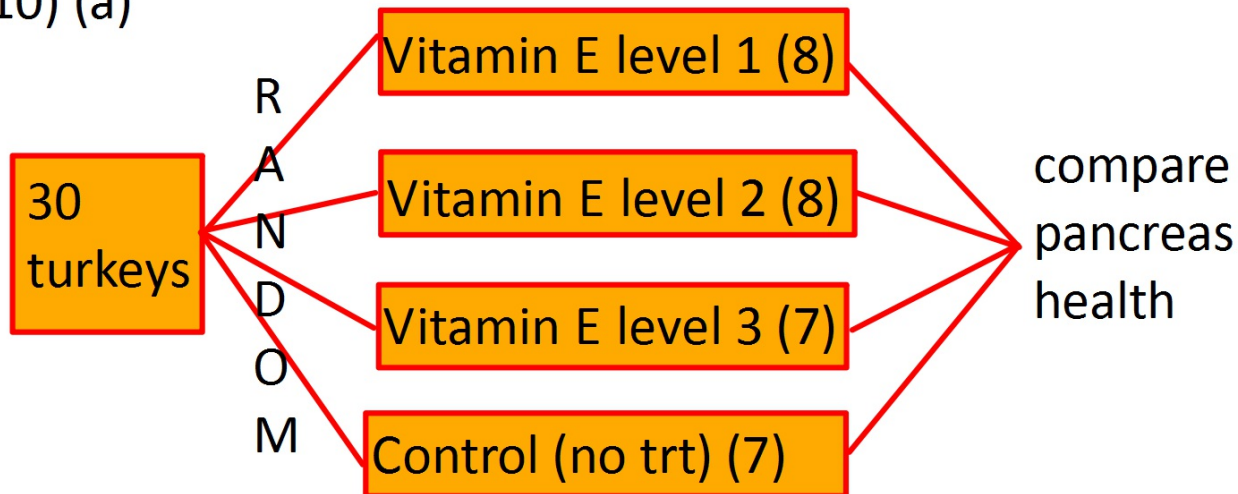
9) (a)



(b) Number the rooms 001 - 200, use TRD, read across line 125 every 3 digits, ignore #201 - 999, 000, and repeats.

119, 033, 199, 192, 148

10) (a)



(b) Assign each turkey a #01 - 30. Read across TRD every 2 digits at line 118. Ignore 31 - 99, 00, repeats.

Trt 1: 19, 03, 25, 04, 02, 07, 18, 20 •

Trt 2: 26, 16, 21, 29, 22, 10, 13, 15 •

Trt 3: 05, 09, 08, 27, 23, 30, 28 •

Control: 01, 06, 11, 12, 14, 17, 24